



MAJOR SOURCE OPERATING PERMIT

Permittee: **Grede II, LLC**
Facility Name: **Grede II, LLC**
Facility No.: **502-0011**
Location: **Brewton, Alabama**

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act, §§22-28-1 to 22-28-23, Ala. Code (1997 Rplc. Vol. and 2006 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, Ala. Code, §§22-22A-1 to 22-22A-16 (1997 Rplc. Vol. and 2005 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date:

Expiration Date:

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General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1) (a) 5.</p>	Rule 335-3-16-.02(6)
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	Rule 335-3-16-.12(2)
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	Rule 335-3-16-.05(e)
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	Rule 335-3-16-.05(f) Rule 335-3-16-.05(g)
<p>5. <u>Termination for Cause</u></p>	

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<p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	Rule 335-3-16-.05(h)
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p>	Rule 335-3-16-.07(b)

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<ul style="list-style-type: none">(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11. <u>Compliance Provisions</u> <ul style="list-style-type: none">(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	Rule 335-3-16-.07(c)
12. <u>Compliance Certification</u> <p>A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit.</p> <ul style="list-style-type: none">(a) The compliance certification shall include the following:<ul style="list-style-type: none">(1) The identification of each term or condition of this permit that is the basis of the certification;(2) The compliance status;(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);	Rule 335-3-16-.07(e)

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<p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p>Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to:</p> <p>Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p> <p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p> <p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for scheduled maintenance, the intent to shut down shall be reported to the Department at least 24 hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ul style="list-style-type: none">(1) Identification of the specific facility to be taken out of service as well as its location and permit number;(2) The expected length of time that the air pollution control equipment will be out of service;(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	<p>§22-28-16(d), Code of Alabama 1975, as amended</p> <p>Rule 335-3-1-.07(1),(2)</p>

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<p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p>	<p>Rule 335-3-4-.02</p>

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<ul style="list-style-type: none"> (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; or <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. 	<p>Rule 335-3-16-.05(c)2</p>

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<p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>Rule 335-3-16-.05(c)3</p>
<p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

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<p>(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures requires probe cleaning).</p> <p>(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.04</p>
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p>	<p>40 CFR Part 82, Subpart F</p>

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<p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <ul style="list-style-type: none">(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.(b) The owner or operator shall submit one of the following:<ul style="list-style-type: none">(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	40 CFR Part 68
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.</p>	Rule 335-3-14-.01(1)(d)
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	Rule 335-3-1-.10
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	Rule 335-3-4-.01(1)

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<p>30. <u>Fuel-Burning Equipment</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p> <p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p> <p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p> <p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) Operation of Approved Monitoring</p> <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p> <p>Rule 335-3-4-.04</p> <p>Rule 335-3-1-.05</p> <p>40 CFR 64.7</p>

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<p>(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p>	

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<p>(4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p>	

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<p>(5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p> <p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p>	<p>40 CFR 64.8</p>

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<p>(2) Elements of a QIP:</p> <p>A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p> <p>B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:</p> <p>(i) Improved preventive maintenance practices.</p> <p>(ii) Process operation changes.</p> <p>(iii) Appropriate improvements to control methods.</p> <p>(iv) Other steps appropriate to correct control performance.</p> <p>(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).</p> <p>(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p> <p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <p>A. Failed to address the cause of the control device performance problems; or</p> <p>B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.</p>	

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p> <p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) General reporting requirements</p> <p>A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3.</p> <p>B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:</p> <p>(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;</p> <p>(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>(iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p>	<p>40 CFR 64.9</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(2) General recordkeeping requirements.</p> <p>A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p> <p>B. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p> <p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p>A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p>	<p>40 CFR 64.10</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p data-bbox="380 212 1110 485">B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but no limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p data-bbox="380 516 1110 684">C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	

Summary Page for Dryer/Preheater A and B with Baghouses

**Permitted Operating
Schedule:**

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001A	Dryer/Preheater A (14,000 lb/hr)	PM	The lesser of 1.5 lb/hr (3.7 tpy) or the allowable set by $3.59(P)^{0.62}$ 0.005 gr/dscf	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04 40 CFR §63.7690 EEEEEE
001A	Dryer/Preheater A (14,000 lb/hr)	Opacity	(see general proviso 29)	335-3-4-.01(1)
001B	Dryer/Preheater B (30,000 lb/hr)	PM	The lesser of 1.5 lb/hr (3.7 tpy) or the allowable set by $3.59(P)^{0.62}$ 0.005 gr/dscf	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04 40 CFR §63.7690 EEEEEE
001B	Dryer/Preheater B (30,000 lb/hr)	Opacity	(see general proviso 29)	335-3-4-.01(1)
001A	Dryer/Preheater A (14,000 lb/hr)	SO ₂	N/A	N/A
001B	Dryer/Preheater B (30,000 lb/hr)	SO ₂	N/A	N/A
001A	Dryer/Preheater A (14,000 lb/hr)	VOC	N/A	N/A
001B	Dryer/Preheater B (30,000 lb/hr)	VOC	N/A	N/A
001A	Dryer/Preheater A (14,000 lb/hr)	NO _x	N/A	N/A
001B	Dryer/Preheater B (30,000 lb/hr)	NO _x	N/A	N/A
001A	Dryer/Preheater A (14,000 lb/hr)	CO	N/A	N/A
001B	Dryer/Preheater B (30,000 lb/hr)	CO	N/A	N/A

Note: Dryer/Preheater A and B have a combined limit of 1.5 lb/hr (3.7 tpy) out of their Baghouse stacks

Provisos for Dryer/Preheater A and B with Baghouses

Federally Enforceable Provisos	Regulations
<p>Applicability</p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits." 2. The Dryer/Preheater A and B have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration). 3. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries. 	<p>Rule 335-3-16-.03</p> <p>Rule 335-3-14.04</p> <p>40 CFR PART 63 SUBPART EEEEE</p>
<p>Emission Standards</p> <ol style="list-style-type: none"> 1. Particulate emissions from the Dryer/Preheater A and B shall not exceed the lesser of the Anti-PSD combined particulate limit of 1.5 lb/hr (3.7 TPY) out of their baghouse stacks or the allowable as set by Rule 335-3-4-.04. 2. These units must comply with the emission standards as set forth in 40 CFR 63.7690 (a)(1)(i) 0.005 grains of PM per dry standard cubic foot (gr/dscf) or (a)(1)(ii) 0.0004 gr/dscf of total metal HAP, Subpart EEEEE. 	<p>Rule 335-3-14-.04(8) & Rule 335-4-.04</p> <p>40 CFR §63.7690 Subpart EEEEE</p>
<p>Compliance and Performance Test Methods and Procedures</p> <ol style="list-style-type: none"> 1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack. 	<p>Rule 335-3-1-.05</p>

Federally Enforceable Provisos	Regulations
<p>2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.</p> <p>3. These units must comply with the performance tests requirements as set forth in 40 CFR 63.7731 (a) & (b) of Subpart EEEEE</p> <p>(a) Subsequent performance test must be conducted to demonstrate compliance with applicable PM, total metal HAP, VOHAP, and TEA emissions limitations in §63.7690 for your Iron and Steel Foundry no less frequently than every 5 years. This requirement for performance tests does not apply to an emission source for which a continuous emissions monitoring systems (CEMS) is used to demonstrate compliance.</p> <p>(b) You must conduct Opacity limit performance compliance testing in §63.7690 (a)(7) for your Iron and Steel Foundry no less frequently than once every 6 months.</p>	<p>Rule 335-3-1-.05</p> <p>40 CFR §63.7731 Subpart EEEEE</p>
<p>Emission Monitoring</p> <p>1. The permittee shall perform a visual check, once per day, of the baghouse discharge vent associated with this unit. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.</p> <p>2. The permittee shall monitor and record the pressure drop across the baghouse once per day.</p> <p>3. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <p>(a) Once per week check hopper, fan and cleaning cycle for proper operation.</p> <p>(b) Once per week a visual check of all hoods and ductwork</p> <p>4. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <p>(a) Once per year inspect baghouse structure, access doors, door seals, and bags.</p> <p>(b) Once per year perform an internal inspection of the baghouse hoppers.</p>	<p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p>

Federally Enforceable Provisos	Regulations
<p>4. These units must comply with the emission monitoring standards as set forth in 40 CFR 63.7740, 63.7741, 63.7742.</p> <p>Grede II must monitor continuously or collect data at specified intervals any time a source of emissions is operating as applicable in §63.7742 (a) through (c).</p> <p>Recordkeeping and Reporting Requirements</p> <ol style="list-style-type: none"> 1. The permittee shall maintain a record of all differential pressure readings and inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years. 2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook. 3. Records of iron production shall be kept in a form suitable for inspection for a period of at least five (5) years following the production of the iron. 4. These units must comply with the recordkeeping and reporting requirements as set forth in 40 CFR 63.7751, 63.7752, and 63.7753. <p>(1) Per §63.7751(a)(5) Grede II, LLC Brewton facility's Semi-Annual Compliance reporting date will be established by the Department based on the date of issuance.</p> <p>(2) Each Compliance report must include the information specified in §63.7751(b)(1) through (3) and, as applicable, in paragraphs §63.7751(b)(4) through (8) of this section.</p> <p>(3) Grede II must keep records as specified in §63.7752(a)(1) through (3) and §63.7752(c).</p> <p>(4) Grede II must keep applicable records in a form suitable for inspection as required by §63.7753(a) through (c).</p>	<p>40 CFR §63.7740, §63.7741, §63.7742 Subpart EEEEE</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>40 CFR §63.7751, §63.7752, §63.7753 Subpart EEEEE</p>

**Summary Page for Four Electric Induction Furnaces with Baghouse K and
Nodularization (Metal treatment) with Baghouse G**

**Permitted Operating
Schedule:**

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Four Induction Furnaces with baghouse K (22 tph)	PM	The lesser of 0.46 lb/ton, 19.4 lb/hr, or the allowable set by 3.59(P) ^{0.62} 0.005 gr/dscf	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04 40 CFR §63.7690 EEEEEE
003	Nodularization (Metal Treatment) Process with Baghouse G	PM	The lesser of 0.26 lb/ton, 5.8 lb/hr, or the allowable set by 3.59(P) ^{0.62}	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04
002 and 003	Four Induction Furnaces with baghouse K (22 tph) and Nodularization (Metal Treatment) Process with baghouse G	Opacity	(see general proviso 29)	335-3-4-.01(1)
002 and 003	Four Induction Furnaces with baghouse K (22 tph) and Nodularization (Metal Treatment) Process with baghouse G	NO _x	N/A	N/A
002 and 003	Four Induction Furnaces with baghouse K (22 tph) and Nodularization (Metal Treatment) Process with baghouse G	SO ₂	N/A	N/A
002 and 003	Four Induction Furnaces with baghouse K (22 tph) and Nodularization (Metal Treatment) Process with baghouse G	VOC	N/A	N/A
002 and 003	Four Induction Furnaces with baghouse K (22 tph) and Nodularization (Metal Treatment) Process with baghouse G	CO	N/A	N/A
002 and 003	Four Induction Furnaces with baghouse K (22 tph) and Nodularization (Metal Treatment) Process with baghouse G	Metal HAP	Alternatively from PM 0.0004 gr/dscf	40 CFR §63.7690 EEEEEE

Note: All Four Electric Induction Furnaces have a combined Anti-PSD limit of 0.46 lb/ton and 19.4 lb/hr (49 tpy)

**Provisos for Four Electric Induction Furnaces with Baghouse K and
Nodularization(Metal Treatment) Process with Baghouse G**

Federally Enforceable Provisos	Regulations
<p>Applicability</p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits." 2. The Four Electric Induction Furnaces and Nodularization (Metal Treatment) Process have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration). 3. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries. 4. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso #33 <p>Emission Standards</p> <ol style="list-style-type: none"> 1. Particulate matter emissions from the Four Electric Induction Furnaces shall not exceed the lesser of the Anti-PSD combined limit of 0.46 lb/ton and 19.4 lb/hr out of the stack or the allowable as set by Rule 335-3-4-.04. 2. Particulate matter emissions from the Nodularization (Metal Treatment) Process with Baghouse G shall not exceed the lesser of an Anti-PSD particulate limit of 0.26 lb/ton and 5.8 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-4-.04. 3. The production of molten iron by the foundry's Four Electric Induction furnaces shall not exceed 108,360 tons during any consecutive twelve month period. 4. Particulate matter emissions from each electric induction furnace shall not exceed 0.005 gr/dscf or, alternatively, metal hazardous air pollutants emissions shall not exceed 0.0004 gr/dscf. 	<p>Rule 335-3-16-.03</p> <p>Rule 335-3-14-.04</p> <p>40 CFR PART 63 SUBPART EEEEE</p> <p>40 CFR PART 64</p> <p>Rule 335-3-14-.04 & Rule 335-3-4-.04</p> <p>Rule 335-3-14-.04 & Rule 335-3-4-.04</p> <p>Rule 335-3-14-.04</p> <p>40 CFR §63.7690 Subpart EEEEE</p>

Federally Enforceable Provisos	Regulations
<p>5. The facility must comply with the scrap certification or scrap selection and inspection program specified in 40 CFR §63.7700 (a) thru (f).</p> <p>To include:</p> <p>You must prepare and operate at all times according to the written plan for selection and inspection of iron and steel scrap as approved by the administrator.</p> <p>For scrap charged to a cupola metal melting furnace, specifications for scrap materials to be depleted (to the extent practicable) of the presence of plastic, and ensure the scrap metals are drained of free liquids.</p> <p>You must have procedures for visual inspection of a representative portion of all incoming scrap shipments to ensure scrap meets specifications.</p> <p>The inspection procedures must include recordkeeping requirements that document each visual inspection and results as well as provisions for rejecting or returning scrap shipments that fail to meet specifications.</p> <p>You must only charge scrap material that is in compliance with the scrap certification requirements.</p>	<p>40 CFR §63.7700 (a) thru (f)</p>
<p>Compliance and Performance Test Methods and Procedures</p> <ol style="list-style-type: none"> 1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions from the stack. 2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions. 3. The facility must be in compliance with the emissions limitations, work practice standards, and operation and maintenance requirements in this subpart at all times, except during periods of startup, shutdown, or malfunction. 	<p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>40 CFR §63.7720(a) Subpart EEEEE</p>

Federally Enforceable Provisos	Regulations
<p>4. The facility must comply with the applicable testing requirements specified in §63.7731, and §63.7732.</p> <p>(1) These units must comply with the performance tests requirements as set forth in 40 CFR 63.7731 (a) & (b) of Subpart EEEEE</p> <p>(a) Subsequent performance test must be conducted to demonstrate compliance with applicable PM, total metal HAP, VOHAP, and TEA emissions limitations in §63.7690 for your Iron and Steel Foundry no less frequently than every 5 years. This requirement for performance tests does not apply to an emission source for which a continuous emissions monitoring systems (CEMS) is used to demonstrate compliance.</p> <p>(b) You must conduct Opacity limit performance compliance testing in §63.7690 (a)(7) for your Iron and Steel Foundry no less frequently than once every 6 months.</p> <p>Emission Monitoring</p>	<p>§63.7731, §63.7732</p> <p>Subpart EEEEE</p>
<p>1. The permittee shall perform a daily visual check of the building(s) containing these units. This check shall be performed by a person familiar with Method 9. If instantaneous visible emissions estimated in excess of 15% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.</p> <p>2. The permittee shall monitor and record the pressure drop across the baghouses at least once per day. (See Appendix CAM Plan)</p> <p>3. The permittee shall perform a visual check, at least once per day, of the stacks associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 15% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.</p> <p>4. The permittee shall perform a weekly inspection of the baghouses to verify proper operation. The following activities shall be performed.</p> <p>(a) Once per week check hopper, fan and cleaning cycle for proper operation.</p> <p>(b) Once per week a visual check of all hoods and ductwork</p>	<p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p>

Federally Enforceable Provisos	Regulations
<p>5. The permittee shall perform an annual inspection of the baghouses to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. <p>6. Each capture system associated with these units must comply with operation and maintenance requirements specified in 40 CFR 63.7710.</p> <p>7. These units must comply with the emission monitoring standards as set forth in 40 CFR 63.7740 (a)(2),(b),(c)(1-8), 63.7741 (a)(1-3) and 63.7742 (a)(c) as applicable.</p> <p>8. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.</p>	<p>Rule 335-3-16-.05</p> <p>40 CFR §63.7710 Subpart EEEEE</p> <p>40 CFR §63.7740, §63.7741, §63.7742 Subpart EEEEE</p> <p>40 CFR PART 64</p>
Recordkeeping and Reporting Requirements	
<p>1. The permittee shall maintain a record of all inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p> <p>2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p> <p>3. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.</p> <p>4. Records of monthly and 12-month rolling total iron production shall be kept in a form suitable for inspection for a period of at least five (5) years following the production of the iron.</p> <p>5. The facility must comply with the recordkeeping and reporting requirements as set forth in 40 CFR 63.7751 (a-d), 63.7752 (a-c) and 63.7753 (a-c) as applicable.</p>	<p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>40 CFR Part 64</p> <p>Rule 335-3-14-.04</p> <p>40 CFR §63.7751, §63.7752, §63.7753 Subpart EEEEE</p>

Summary Page for Two Pouring Lines with Custom Systems Baghouse and Three Cooling Lines with Amerex Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
004	Two Pouring Lines with Custom Systems Baghouse	PM	The lesser of 0.50 lb/ton, and 11.03 lb/hr (27.14 tpy), or the allowable set by 3.59(P) ^{0.62}	SIP 335-3-4-.04 Anti-PSD 335-3-14-.04
004	Two Pouring Lines with Custom Systems Baghouse	Opacity	(see general proviso 29)	335-3-4-.01(1)
005	Two Cooling Lines with Roof Vent	PM	The lesser of 0.74 lb/ton, and 14.0 lb/hr (34.5 tpy), or the allowable set by 3.59(P) ^{0.62}	SIP 335-3-4-.04 Anti-PSD 335-3-14-.04
005	Two Cooling Lines with Roof Vent	Opacity	(see general proviso 29)	335-3-4-.01(1)
006	Two Cooling Lines with Amerex Baghouse	PM	The lesser of 0.16 lb/ton, and 3.4 lb/hr (14.9tpy), or the allowable set by 3.59(P) ^{0.62} 0.010 gr/dscf or total metal HAP of 0.0008 gr/dscf	SIP 335-3-4-.04 Anti-PSD 335-3-14-.04 40 CFR §63.7690 EEEEEE
006	Two Cooling Lines with Amerex Baghouse	Opacity	(see general proviso 29)	335-3-4-.01(1)

Note: Fifty percent of the cooling emissions are captured by the Roof Vent and fifty percent of the cooling emissions are captured by the Amerex Baghouse

Provisos for Two Pouring Lines with Custom Systems Baghouse and Three Cooling Lines with Amerex Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits."	Rule 335-3-16-.03
2. The Two Pouring Lines and Three Cooling Lines have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).	Rule 335-3-14-.04
3. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries.	40 CFR PART 63 SUBPART EEEEE
4. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso #33	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Two Pouring Lines baghouse stack shall not exceed the lesser of the Anti-PSD combined particulate limit of 0.50 lb/ton and 11.03 lb/hr out of the exhaust stack or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-14-.04(8) & Rule 335-3-4-.04
2. Particulate matter emissions from the Three Cooling Lines Roof Vent shall not exceed the lesser of the Anti-PSD combined limit of 0.74 lb/ton and 14.0 lb/hr from the building roof vents or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-14-.04(8) & Rule 335-3-4-.04
3. Total particulate matter emissions from the Amerex baghouse stack shall not exceed the lesser of the Anti-PSD combined particulate limit of 0.16 lb/ton and 3.4 lb/hr of the baghouse exhaust stack or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-14-.04(8) & Rule 335-3-4-.04
4. For each pouring station at an existing iron and steel foundry, you must not discharge emissions through a conveyance to the atmosphere that exceed either the limit for PM 0.010 gr/dscf, or the limit for total metal HAP of 0.0008 gr/dscf.	40 CFR §63.7690 (a)(5) Subpart EEEEE
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions from the stack.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
3. These units must comply with the performance test requirements as set forth in 40 CFR 63.7731 Subpart EEEEE.	40 CFR §63.7731 Subpart EEEEE
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the exhaust stack associated with the Custom Systems and Amerex Baghouse. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
2. The permittee shall monitor and record the pressure drop across the baghouses at least once per day.	Rule 335-3-16-.05
3. Once per day check the pouring lines and cooling lines capture hoods for fugitive emissions and emissions capture. Record any repairs or observed problems.	Rule 335-3-16-.05
4. The permittee shall perform a daily visual check of the building containing the three pouring and three cooling lines. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 15% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
5. The permittee shall perform a weekly inspection of the baghouses to verify proper operation. The following activities shall be performed. (a) Once per week check hopper, fan and cleaning cycle for proper operation. (b) Once per week a visual check of all hoods and ductwork. (c) Record any repairs or observed problems.	Rule 335-3-16-.05

Summary Page for Sand Cooler with Shared Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
007	Sand Cooler with baghouse	PM	The lesser of 3.0 lb hr (7.39 tpy) or the allowable set by $3.59(P)^{0.62}$	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04
007	Sand Cooler with baghouse	Opacity	(see general proviso 29)	335-3-4-.01(1)
007	Sand Cooler with baghouse	CO	N/A	N/A
007	Sand Cooler with baghouse	NO _x	N/A	N/A
007	Sand Cooler with baghouse	SO ₂	N/A	N/A
007	Sand Cooler with baghouse	VOC	N/A	N/A

Note: The Sand Cooler and Foundry Sand System have a combined particulate limit of 3.0 lb/hr (7.39 tpy) out of the shared baghouse stack.

Provisos for Sand Cooler with Shared Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits."	Rule 335-3-16-.03
2. The Sand Cooler has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).	Rule 335-3-14-.04
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso #33	40 CFR PART 64
Emission Standards	
1. Particulate emissions from the Sand Cooler shall not exceed the lesser of the Anti-PSD combined particulate limit of 3.0 lb/hr out of the shared baghouse stack or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-14-.04(8) & Rule 335-3-4-.04
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If instantaneous estimated visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
2. The permittee shall monitor and record the pressure drop across the baghouse once per day.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
<p>3. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per week check hopper, fan and cleaning cycle for proper operation. (b) Once per week a visual check of all hoods and ductwork. 	Rule 335-3-16-.05
<p>5. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. 	Rule 335-3-16-.05
<p>6. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.</p>	40 CFR PART 64
Recordkeeping and Reporting Requirements	
<p>1. The permittee shall maintain a record of all differential pressure readings and inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	Rule 335-3-16-.05
<p>2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p>	Rule 335-3-16-.05

Summary Page for Foundry Sand System with Shared Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
007	Foundry Sand System with baghouse	PM	The lesser of 3.0 lb/hr (7.39 tpy) or the allowable set by 3.59(P) ^{0.62}	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04
007	Foundry Sand System with baghouse	Opacity	(see general proviso 29)	335-3-4-.01(1)
007	Foundry Sand System baghouse	CO	N/A	N/A
007	Foundry Sand System with baghouse	NO _x	N/A	N/A
007	Foundry Sand System with baghouse	SO ₂	N/A	N/A
007	Foundry Sand System with baghouse	VOC	N/A	N/A

Note: The Foundry Sand System and Sand Cooler have a combined particulate limit of 3.0 lb/hr (7.39 tpy) out of the shared baghouse stack.

Provisos for Foundry Sand System with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits."	Rule 335-3-16-.03
2. The Foundry Sand System has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).	Rule 335-3-14-.04
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso #33	40 CFR PART 64
Emission Standards	
1. Particulate emissions from the Foundry Sand System shall not exceed the lesser of the Anti-PSD combined particulate limit of 3.0 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-14-.04(8) & Rule 335-3-4-.04
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
2. The permittee shall monitor and record the pressure drop across the baghouse once per day.	Rule 335-3-16-.05

Summary Page for Two Rotary Shakeouts with shared Baghouse

Permitted Operating

Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
008	Two Rotary Shakeouts	PM	The lesser of 3.4 lb/hr (14.9 tpy) or the allowable set by $3.59(P)^{0.62}$	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04
008	Two Rotary Shakeouts	Opacity	(see general proviso 29)	335-3-4-.01(1)
008	Two Rotary Shakeouts	VOC	N/A	N/A

Note: The two rotary shakeouts have a combined particulate limit of 3.4 lb/hr (14.9 tpy) out of the shared baghouse stack

Provisos for Two Rotary Shakeouts with Shared Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits."	Rule 335-3-16-.03
2. The Two Rotary Shakeouts have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).	Rule 335-3-14-.04
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso #33	40 CFR PART 64
Emission Standards	
1. The particulate emissions from the Two Rotary Shakeouts shall not exceed the lesser of the Anti-PSD combined particulate limit of 3.4 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-14-.04(8) & Rule 335-3-4-.04
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
2. The permittee shall monitor and record the pressure drop across the baghouse once per day.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
<p>3. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per week check hopper, fan and cleaning cycle for proper operation. (b) Once per week a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05
<p>4. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05
<p>5. All dust handling systems (screw conveyers, silos, dumpsters, etc.) shall be inspected once per day to verify proper operation. Any repairs or observed problems shall be recorded.</p>	Rule 335-3-16-.05
<p>6. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.</p>	40 CFR PART 64
Recordkeeping and Reporting Requirements	
<p>1. The permittee shall maintain a record of all differential pressure readings and inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	Rule 335-3-16-.05
<p>2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p>	Rule 335-3-16-.05

Summary Page for Continuous Shotblast with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
009	Continuous Shotblast with baghouse	PM	The lesser of 0.37 lb/ton or the allowable set by $3.59(P)^{0.62}$	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04
009	Continuous Shotblast with baghouse	Opacity	(see general proviso 29)	335-3-4-.01(1)

Provisos for Continuous Shotblast with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits."	Rule 335-3-16-.03
2. The Continuous Shotblast with Baghouse has an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).	Rule 335-3-14-.04
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso #33	40 CFR PART 64
Emission Standards	
1. Particulate matter emissions from the Continuous Shotblast shall not exceed the lesser of 0.37 lb/ton or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-4-.04
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
2. The permittee shall monitor and record the pressure drop across the baghouse at least once per day.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
<p>3. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per week check hopper, fan and cleaning cycle for proper operation. (b) Once per week a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05
<p>4. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05
<p>5. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.</p>	40 CFR PART 64
Recordkeeping and Reporting Requirements	
<p>1. The permittee shall maintain a record of all differential pressure readings and inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	Rule 335-3-16-.05
<p>2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p>	Rule 335-3-16-.05

Summary Page for Wheelabrator "Reclean" Shotblast with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
010	Wheelabrator "Reclean" Shotblast with baghouse	PM	The lesser of 0.37 lb/ton or the allowable set by $3.59(P)^{0.62}$	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04
010	Wheelabrator "Reclean" Shotblast with baghouse	Opacity	(see general proviso 29)	335-3-4-.01(1)

Provisos for Wheelabrator “Reclean” Shotblast with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits."	Rule 335-3-16-.03
2. The Wheelabrator Shotblast has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).	Rule 335-3-14-.04
3. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, “Compliance Assurance Monitoring”, to include General Proviso #33	40 CFR PART 64
Emission Standards	
1. Particulate matter emissions from the Wheelabrator Shotblast shall not exceed the lesser of 0.37 lb/ton or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-4-.04
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
2. The permittee shall monitor and record the pressure drop across the baghouse once per day.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
<p>3. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per week check hopper, fan and cleaning cycle for proper operation. (b) Once per week a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05
<p>4. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per year inspect baghouse structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05
<p>5. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.</p>	40 CFR PART 64
Recordkeeping and Reporting Requirements	
<p>1. The permittee shall maintain a record of all differential pressure readings and inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	Rule 335-3-16-.05
<p>2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p>	Rule 335-3-16-.05

Summary Page for Snag Grinders and Degating Line with Common Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
011	Snag Grinders and Degating Line	PM	3.59(P) ^{0.62}	335-3-4-.04
011	Snag Grinders and Degating Line	Opacity	(see general proviso 29)	335-3-4-.01(1)

Note: The Snag Grinders and Degating line have a combined particulate limit of 2.1 lb/hr (5.2 tpy) out of the baghouse stack

Provisos for Snag Grinders and Degating Line with Common Baghouse

Federally Enforceable Provisos	Regulations
<p>Applicability</p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits." 2. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring", to include General Proviso #33 <p>Emission Standards</p> <ol style="list-style-type: none"> 1. The particulate emissions from the Snag Grinders and Degating Line shall not exceed the allowable as set by Rule 335-3-4-.04. <p>Compliance and Performance Test Methods and Procedures</p> <ol style="list-style-type: none"> 1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack. 2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions. <p>Emission Monitoring</p> <ol style="list-style-type: none"> 1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with this unit. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded. 2. The permittee shall monitor and record the pressure drop across the baghouse once per day. 3. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed. <ol style="list-style-type: none"> (a) Once per week check hopper, fan, and cleaning cycle for proper operation. (b) Once per week a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. 	<p>Rule 335-3-16-.03</p> <p>40 CFR PART 64</p> <p>Rule 335-3-4-.04</p> <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p>

Federally Enforceable Provisos	Regulations
<p>4. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per year inspect scrubber structure, access doors, door seals, and bags. (b) Once per year perform an internal inspection of the baghouse hoppers. (c) Record any repairs or observed problems. 	Rule 335-3-16-.05
<p>5. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.</p>	40 CFR PART 64
Recordkeeping and Reporting Requirements	
<p>1. The permittee shall maintain a record of all differential pressure readings and inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	Rule 335-3-16-.05
<p>3. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p>	Rule 335-3-16-.05

Summary Page for Core Making Process with Packed Bed Scrubber

Permitted Operating

Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
012	Two, LKF 210 core machines, Two Disa combi-core machines and One B & P Isocure Core Machine with Packed Bed Scrubber	PM	The lesser of 3.3 lb/hr (14.9 tpy) or the allowable set by 3.59(P) ^{0.62}	Anti-PSD 335-3-14-.04 SIP 335-3-4-.04
012	Two, LKF 210 core machines, Two Disa combi-core machines and One B & P Isocure Core Machine with Packed Bed Scrubber	Opacity	(see general proviso 29)	335-3-4-.01(1)
012	Two, LKF 210 core machines, Two Disa combi-core machines and One B & P Isocure Core Machine with Packed Bed Scrubber	TEA	1 ppmv	40 CFR 63.7690 (a)(11) EEEEEE

Note: All five core machines are vented to the same packed bed scrubber and have the same Anti-PSD limit and the same PM allowable as set by rule 335-3-4.04.

Provisos for Core Making Process with Packed Bed Scrubber

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03 "Major Source Operating Permits."	Rule 335-3-16-.03
2. The Core Making Process has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R 335-3-14-.04, Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration).	Rule 335-3-14-.04
3. These sources are subject to and must comply with the applicable requirements of 40 CFR Part 63 Subpart EEEEE, "National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries.	40 CFR PART 63 SUBPART EEEEE
Emission Standards	
1. All combined particulate emissions from B & P Isocure Machines, two LKF 210 Core Machines and two Disa Core Machines shall not exceed the lesser of the Anti-PSD combined particulate limit of 3.3 lb/hr out of the packed bed scrubber stack or the allowable as set by Rule 335-3-4-.04.	Rule 335-3-14-.04(8) & Rule 335-3-4-.04
2. These units must comply with the emission standards as set forth in 40 CFR 63.7690 (11)(i) Subpart EEEEE.	40 CFR §63.7690(11)(i) Subpart EEEEE
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
3. These units must comply with the performance tests requirements as set forth in 40 CFR 63.7731 Subpart EEEEE.	40 CFR §63.7731 Subpart EEEEE
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of each stack associated with these units. This check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed, and are not corrected within a period of 1 hour, then a Method 9 must be performed within 4 hours of the	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
<p>observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.</p> <p>2. The permittee shall monitor and record the scrubber column differential pressure and scrubbing solution pH once per day.</p> <p>3. The permittee shall perform a weekly inspection of the packed bed scrubber to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per week a visual check of the scrubber, blower, and scrubbing solution pump for proper operation. (b) Once per week a visual check of all hoods and ductwork. (c) Record any repairs or observed problems. <p>4. The permittee shall perform an annual inspection of the packed bed scrubber to verify proper operation. The following activities shall be performed.</p> <ul style="list-style-type: none"> (a) Once per year inspect scrubber structure, access doors, and door seals. (b) Once per year perform an internal inspection of the scrubber column packing, scrubber blower, and scrubber solution pump. (c) Record any repairs or observed problems. <p>5. These units must comply with the emission monitoring standards as set forth in 40 CFR 63.7740 (d), 63.7741(e)(1-3), and 63.7742 (a)&(c).</p>	<p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>40 CFR §63.7740, §63.7741, §63.7742 Subpart EEEEE</p>
Recordkeeping and Reporting Requirements	
<p>1. The permittee shall maintain a record of all differential pressure readings and solution pH readings and inspections, to include visible observations and Method 9's performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p> <p>2. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.</p> <p>3. These units must comply with the recordkeeping and reporting requirements as set forth in 40 CFR 63.7751(a-d), 63.7752 (a-c), and 63.7753 (a-c).</p>	<p>Rule 335-3-16-.05</p> <p>Rule 335-3-16-.05</p> <p>40 CFR §63.7751, §63.7752, §63.7753 Subpart EEEEE</p>

APPENDIX

COMPLIANCE ASSURANCE MONITORING (CAM)

Compliance Assurance Monitoring Plan for Emission Point 002 with Baghouse (Three Pouring Stations and Four Induction Furnaces)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.

D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring Plan for Emission Point 003 with Baghouse
(Magnesium Treatment at Four Induction Furnaces)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Collector pressure drop range
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 3.0 inches of H ₂ O and greater than 10.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately with another gauge kept in stock in the Maintenance Department.

D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring Plan for Emission Point 007 with Baghouse (Sand System)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.

D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring Plan for Emission Point 008 with Baghouse (Two Rotary Shakeouts)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.

D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring Plan for Emission Point 009 with Baghouse
(Continuous Shotblast)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.

D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring Plan for Emission Point 011 with Baghouse (Snag Grinders and Degating)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 2.0 inches of H ₂ O and greater than 10.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.

D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous

Compliance Assurance Monitoring Plan for Emission Point 010 with Baghouse
(Wheelabrator “Reclean” Shotblast)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Exhaust Gas Stream Pressure Drop
Measurement Approach	Visual inspection of the baghouse stack	Baghouse magnehelic gauge
II. Indicator Range	While the unit is operating, an excursion is defined as instantaneous opacity greater than 10 %. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of (1) one hour, then a method 9 must be performed within (4) four hours of the observation.	While unit is operating, an excursion is defined as differential pressure is less than 1.0 inches of H ₂ O and greater than 8.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, recordkeeping and reporting.
III. Performance Criteria		
A. Data Representativeness	Measurement is being made at the baghouse exhaust stack.	The magnehelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The baghouse exhaust stack opacity observer will be Method 9 trained.	The magnehelic gauge will be checked periodically in accordance with existing preventive maintenance procedures. The gauge is checked by removing the two connecting lines from the baghouse to insure it is properly standardized to zero and the pressure indicating needle is moving freely. Any malfunctioning gauge will be replaced immediately.

D. Monitoring Frequency	An observation will be performed daily	An observation will be performed daily
Data Collection Procedures	Observation will be recorded with date, time, results, and name of observer	Observation will be recorded with date, time, results, and name of observer
Averaging Period	Instantaneous	Instantaneous